

Tropical Animal Production (I002746)

Course size *(nominal values; actual values may depend on programme)*

Credits 4.0	Study time 120 h	Contact hrs	40.0h
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Course offerings in academic year 2022-2023

A (semester 2)	English	Gent
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Lecturers in academic year 2022-2023

Fievez, Veerle	LA22	lecturer-in-charge
De Smet, Stefaan	LA22	co-lecturer
Michiels, Joris	LA22	co-lecturer

Offered in the following programmes in 2022-2023

	crdts	offering
Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture (main subject Tropical and Subtropical Agriculture)	4	A
Master of Science in Bioscience Engineering: Agricultural Sciences	4	A
Exchange Programme in Bioscience Engineering: Agricultural Sciences (master's level)	4	A

Teaching languages

English

Keywords

Tropical animal science, tropical animal feeding, production systems, pastoral systems

Position of the course

To offer a survey of tropical animal production systems. General principles, related to climate, disease and breeding. Animal nutrition aspects of ruminants and monogastrics are addressed in relation to tropical feed quality and animal husbandry systems, including extensive pastoral systems as well as intensive production systems.

Contents

1. Introduction
2. Tropical and subtropical climate: effect on domestic animals & consequences for animal production
3. Animal breeding in (sub)tropical farming systems
4. Animal production in different farming systems in the tropics
 - 4.1. Ruminant production systems - Grassland-based livestock production systems - pastoralism, agropastoralism & transhumance, rangeland management
 - 4.2. Ruminant production systems - mixed (integrated) production systems
 - 4.3. Non-ruminant production systems

Initial competences

There are no specific requirements. Prior knowledge of anatomy, physiology and general principles of animal production is an advantage.

Final competences

- 1 Basic knowledge of characteristics of the most important animal production systems in the tropics
- 2 Understand the main differences between animal production in temperate and tropical areas.
- 3 Critically evaluate opportunities and constraints of animal production systems in particular tropical regions.
- 4 Critically assess opportunities and dangers of sustainable intensification based on genetics and improved animal nutrition.
- 5 Demonstrate the impact of heat stress on the development of animal production systems in the tropics.

6 Demonstrate the impact of type and availability of feed resources in the development of animal production systems in the tropics.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Microteaching, Guided self-study, Lecture, Self-reliant study activities, Seminar: coached exercises

Learning materials and price

A syllabus is available via Ufora

References

A detailed reference list is available in the syllabus.

Course content-related study coaching

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Assessment moments

end-of-term and continuous assessment

Examination methods in case of periodic assessment during the first examination period

Written examination with open questions

Examination methods in case of periodic assessment during the second examination period

Written examination with open questions

Examination methods in case of permanent assessment

Report, Participation, Assignment

Possibilities of retake in case of permanent assessment

not applicable

Calculation of the examination mark

Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.